

IN THE CLAIMS:

Please amend claims 3-4, 6, 23-26, 29 and 33-36 as follows:

52
B1 3. (Amended) A flame-sprayed copper-aluminum composite material according to claim 2, wherein said first aluminum alloy comprises a second aluminum alloy, which is formed by incorporating said copper or a component of the first copper alloy into the first aluminum alloy, by to flame-spraying.

A4 4. (Amended) A flame-sprayed copper-aluminum composite material according to claim 2 or 3, characterized in that the main structure consists of the unmelted phase of the copper or the first copper alloy and the melted phase of aluminum or the second aluminum alloy.

A5 6. (Amended) A flame-sprayed copper-aluminum composite material according to claim 1, wherein said first copper alloy comprises Pb, and said first aluminum alloy comprises Si.

A6 23. (Amended) A flame-sprayed copper-aluminum composite material according to claim 3, wherein at least a portion of said first copper alloy (except for the second copper alloy) consists of Cu crystals, and at least a portion of said first aluminum alloy (except for the second aluminum alloy) consists of Al crystals.

24. (Amended) A flame-sprayed copper-aluminum composite material according to claim 6, characterized by further containing 30% by weight or less of graphite particles.

52
B3
25. (Amended) A flame-sprayed copper-aluminum composite material according to claim 1, characterized by further containing 30% by weight or less of one or more selected from the group consisting of Al_2O_3 , SiO_2 , SiC , ZrO_2 , Si_3N_4 , BN , AlN , TiN , TiC , B_4C , as well as iron-phosphorus, iron-boron, and iron-nitrogen compounds.

Cont
A6
26. (Amended) A flame-sprayed copper-aluminum composite material according to claim 1, wherein it is laminated on a substrate and is coated with a soft metal layer.

A7
29. (Amended) A flame-sprayed copper-aluminum composite material according to claim 2 or 3 characterized in that said flame-sprayed surface layer is coated with a film, which comprises MoS_2 or graphite or a mixture of MoS_2 and graphite.

33. (Amended) A method for producing a copper-aluminum composite material according to claim 30 or 31, characterized by further flame spraying 30% by weight or less of graphite powder.

34. (Amended) A method for producing a copper-aluminum composite material according to claim 30 or 31, characterized by further flame spraying 30% by weight or less of one or more selected from the group consisting of Al_2O_3 , SiO_2 , SiC , ZrO_2 , Si_3N_4 , BN , AlN , TiN , TiC , B_4C , as well as iron-phosphorus, iron-boron, and iron -nitrogen compounds.

35. (Amended) A method for producing a copper-aluminum composite material according to claim 30 or 31, wherein the flame spraying is carried out on a roughened surface of a metallic substrate.

36. (Amended) A method for producing a copper-aluminum composite material according to claim 30 or 31, wherein heat treatment of the flame- sprayed layer is carried out subsequent to the flame spraying.